



State Revolving Fund Loan Programs Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

TOWN OF WINSLOW New Patoka River Intake STATE REVOLVING FUND PROJECT DW 09 61 63 01

DATE: August 13, 2009

TARGET PROJECT APPROVAL DATE: September 14, 2009

I. INTRODUCTION

The above entity has applied to the Drinking Water State Revolving Fund (DWSRF) Loan Program for a loan to finance all or part of the drinking water project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The DWSRF has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the deadline date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

Max Henschen
Senior Environmental Manager
State Revolving Fund
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
317-232-8623; mhensche@ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address:	New Patoka River Intake Town of Winslow 301 Main Street Winslow, IN 47598
SRF Project Number:	DW 09 61 63 01
Authorized Representative:	Jeffery Bolin, President Town Council

II. PROJECT LOCATION

Winslow is located in Pike County, in the southwest portion of the state. The project is located in Patoka civil township. The Public Land Survey System coordinates are: Township 1 S, Range 7 W, SW ¼ of the SW ¼ of the SW ¼ of Section 32 in the Winslow USGS 7.5 minute quadrangle. See Figure 1.

III. PROJECT NEED AND PURPOSE

Winslow is under an Agreed Order with the Indiana Department of Environmental Management (IDEM) to address high levels of disinfection byproducts. These levels result from the chlorine disinfectant used to treat the raw water and reduce the suspended solids in the raw water, which obstruct the current intake structure. The proposed project consists of adding a new intake which will filter out more suspended solids from the raw water and lessen the need for high levels of disinfectant to sequester the solids; the disinfection byproducts will be reduced to acceptable levels.

IV. PROJECT DESCRIPTION

The proposed project includes the construction of a new 12-inch diameter raw water intake that will be constructed in the river bank upstream of the existing raw water intake; rip-rap will be placed on the river side of the intake (See figures 2 and 3). The new intake will consist of a 12-inch diameter perforated plastic pipe that is encased in sand, geo-textile filter fabric, and stone for proper filtering. The existing raw water intake structure will be upgraded to facilitate a piping interface between the new structure and the existing structure to allow for the proper operation of the new intake facilities and to use the existing intake piping on an emergency basis.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction Cost	\$18,000
Non-Construction Cost	<u>21,637</u>
Total Estimated Project Cost	\$39,637

- B. Winslow will finance the project with a 20-year loan from the State Revolving Fund (SRF) Loan Program at an interest rate to be determined at the time of loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan repayment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

No Action Alternative: The no-action alternative would result in disinfection byproduct levels remaining above acceptable levels, leaving Winslow in violation of state water quality standards. This alternative was rejected.

Operation Optimization: This alternative includes identifying and implementing operational efficiencies at the existing intake facility. Such efficiencies were identified in 2008, and have since been employed. Despite overall improvements, these strategies did not resolve the high disinfection byproduct levels. Therefore, this alternative alone is not sufficient to correct the problem.

Upgrade of Intake Facility: This alternative includes the construction of a new raw water screening intake structure, with capabilities for backwash cleaning, chemical cleaning and disinfection. This alternative was selected as the cost-effective and reliable alternative.

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Undisturbed/Disturbed Land: An archaeological survey of the project area did not find archaeological materials.

Structural Resources: The project will not will not alter, demolish or remove historic properties. Any visual, audible or atmospheric effects will be temporary. The SRF's finding pursuant to Section 106 of the National Historic Preservation Act is: "no historic properties affected."

Surface Waters and Wetlands (Figure 4): The Patoka River is listed on the May 30, 2007 Natural Resources Commission Non-Rule Policy Document: *Outstanding Rivers List for Indiana*, Information Bulletin #4, second amendment. The proposed project will not adversely affect Waters of High Quality, Exceptional Use Streams, or Natural, Scenic, and Recreational Rivers and Streams. The proposed project area is part of a wetland, and the town is pursuing necessary permits.

100-Year Floodplain (Figure 5): The proposed project will be constructed in the 100-year floodplain. There will be no above ground structures, so no floodwater displacement will occur.

Groundwater: The proposed project will not negatively affect a sole source aquifer or other groundwater resources.

Plants and Animals (Figure 6): The proposed project will not affect endangered plants or animals. The project will remove approximately 17 small diameter Silver Maples and a Sycamore on the top of the river bank. The town will plant replacement trees.

Prime Farmland: The proposed project will not affect farmland.

Air Quality: Construction activities may generate some noise, fumes, and dust.

Open Space and Recreational Opportunities: The proposed project will neither create nor destroy open space and recreational opportunities.

The proposed projects will not affect National Natural Landmarks or the Lake Michigan Coastal Zone.

B. Indirect Impacts

The town's Preliminary Engineering Report (PER) states: *The Town, through the authority of its Council, planning commission, or other means will ensure that future development, as well as future supply, storage, distribution, or treatment works projects connecting to SRF-funded facilities, will not adversely impact archaeological/historical/structural resources, wetlands, wooded areas, or other sensitive environmental resources. The Town will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

The Natural Resources Conservation Service, in correspondence dated May 5, 2009 stated: *The project ...will not cause a conversion of prime farmland.*

The State Historic Preservation Officer (SHPO) in correspondence dated July 28, 2009 stated: *Based on our analysis, it has been determined that no historic properties will be altered, demolished, or removed by the proposed project. We concur with the archaeological report that no further archaeological investigations will be necessary. If any archaeological artifacts, features, or human remains are uncovered during construction, state law (Indiana Code 14-21-1-27 and 29) requires that the discovery must be reported to the Department of Natural Resources within two (2) business days.*

This document is the first notice to the U.S. Fish and Wildlife Service and the IDNR Environmental Unit.

VIII. MITIGATION MEASURES

The town's PER states: Siltation and erosion will be kept to a minimum. Any mitigation measures mandated by authorized reviewing agencies to reduce or eliminate waterway contamination will be implemented. The project will be implemented to minimize impact to non-endangered species and their habitat. The adverse impacts caused by dust will be alleviated by the periodic wetting of exposed soils and unpaved roadways to reduce the suspension of particles. To reduce noise impacts, work activities will be limited to normal daytime hours.

IX. PUBLIC PARTICIPATION

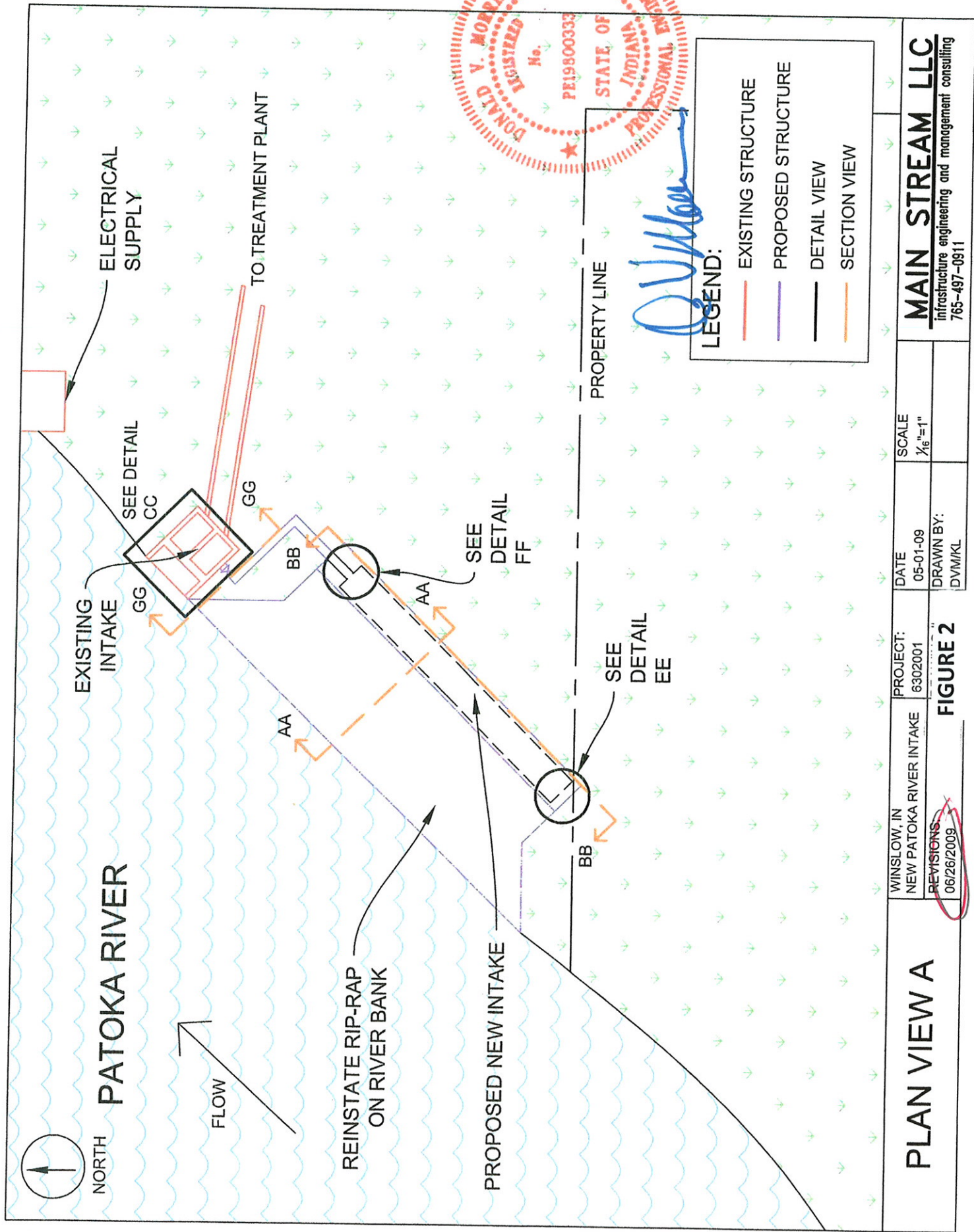
A properly noticed Public Hearing was held on March 9, 2009 at 6:30 pm at the Winslow Town Hall, 301 Main Street. There were no written comments received by the utility during the 5-day period following the public hearing.



AERIAL MAP **FIGURE 1**

WINSLOW, IN NEW PATOKA INTAKE	PROJECT:	DATE	SCALE
	6302001	6/30/2001	ON ILLUSTRATION
	DRAWING #	KL/DVM	
	3 OF 5		

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NORTH

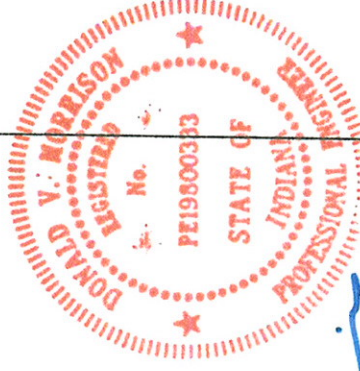
CRUSHED LIMESTONE
SIZE: LARGER THAN 3"
SMALLER THAN 1'

FILTER BAG FILLED WITH
CRUSHED LIMESTONE
SIZE: SMALLER THAN 2"
LARGER THAN 1/2"

UNDISTURBED
EXISTING SOIL

- Rip-Rap

PATOKA
RIVER



[Signature]

SECTION VIEW AA

WINSLOW, IN
NEW PATOKA RIVER INTAKE

DATE
05-01-09

SCALE
1/4"=1'

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REVISIONS:
06/26/2009

FIGURE 3

DRAWN BY:
JVM/KL



WETLAND MAP

LEGEND:



WETLAND
LINE



POND OR
LAKE



WINSLOW, IN
NEW PATOKA INTAKE

PROJECT:
6302001

DATE
6302001

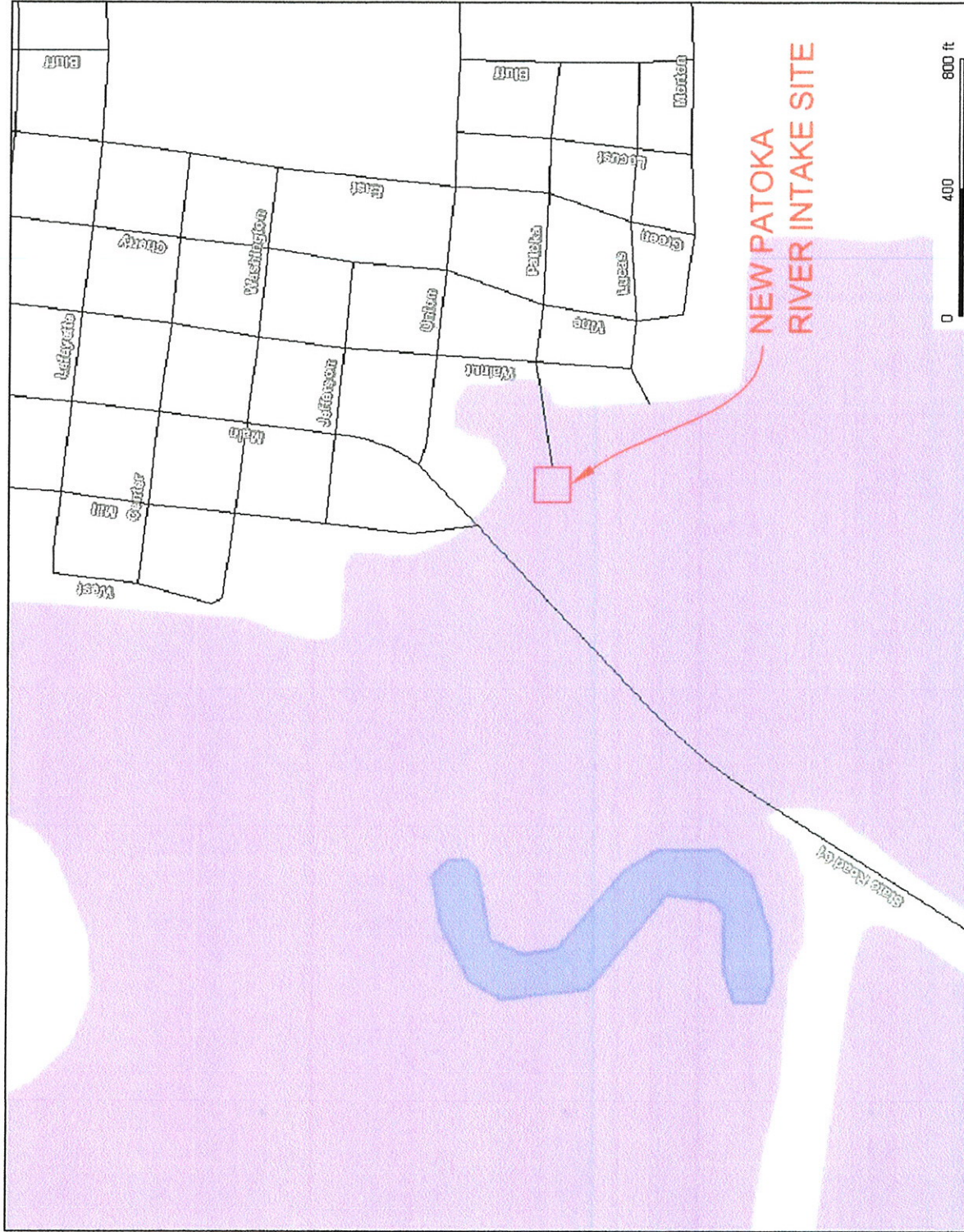
SCALE
ON ILLUSTRATION

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FIGURE 4

CL/DVM

OJECT:



LEGEND:



FLOODPLAIN



WATER
FEATURE

FLOODPLAIN MAP

WINSLOW, IN
NEW PATOKA INTAKE

PROJECT:
6302001

DATE
6/30/2001

SCALE
ON ILLUSTRATION

FIGURE 5

DRAWN BY:
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LOOKING NORTH-EAST TOWARD ELECTRIC
BOXES



EAST TOWARD WATER TREATMENT PLANT



LOOKING NORTH-EAST AT PROJECT SITE



LOOKING SOUTH-WEST AT PROJECT SITE

FIGURE 6

PICTURES

WINSLOW, IN	PROJECT:	DATE	SCALE
NEW PATOKA RIVER INTAKE	6302001	05-01-09	NTS
REVISIONS:	DRAWING #	DRAWN BY:	
06/26/2009	12 OF 12	DVM/KL	

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